WEED ABSTRACTS

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WEED ABSTRACTS

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UNDER THE DIRECTION OF J.D. FRYER

The journal is published monthly by the Commonwealth Agricultural Bureaux as one of a series of abstract journals covering the major branches of agricultural science.

The object of *Weed Abstracts* is to provide factual summaries and reports of the world scientific and technical literature on weeds, weed control and allied subjects as a means of enabling readers to keep abreast of current developments and to act as a concise source of reference.

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Abbreviations

abs.	abstract	in	inch	pp.	pages
a.e.	acid equivalent	in^2	square inch	p.p.m.	parts per million
a.i.	active ingredient	IR	infra-red	p.p.m.v.	parts per million by volume
b.p.	boiling point	kcal	kilocalorie		
bu	bushel	kg	kilogramme	p.p.m.w.	parts per million by weight
°C	degrees Celsius (formerly Centigrade)	LC_{50}	median lethal concentration (median tolerance limit or TL_m)	pre-em.	pre-emergence
conc.	concentrated			p.t.o.	power take off
concn.	concentration	LD_{50}	median lethal dose	pt	pint
cv.	cultivar(s)	lb	pound	ref.	references
cwt	hundredweight	lbf/in^2	pounds-force per square inch	RH	relative humidity
d.b.h.	diameter at breast height			s	second
		M	molar concentration	sp.	species
diam.	diameter	m	metre	spp.	species (plural)
DM	dry matter	m-	milli-(x 10^{-3})	ssp.	subspecies
dz	Doppelzentner (= 100 kg	μ-	micro (x 10^{-6})	t	tonne (Mg)
		μm	micron	temp.	temperature
e.c.	emulsifiable concentrate	m^2	square metre	TLC	thin-layer chromatography
		m.c.	moisture content		
°F	degrees Fahrenheit	mg	milligramme	u.l.v.	ultra low volume
ft	foot	min	minute	UV	ultra-violet
ft^2	square foot	ml	millilitre	var.	*varietas*
g	gramme	mm	millimetre	vol.	volume
gal	gallon	m.p.	melting point	wt	weight
GLC	gas-liquid chromatography	N	normal concentration	w.p.	wettable powder
		n	nano-(x 10^{-9})	yd	yard
h	hour	OM	organic matter	>	more than
ha	hectare	oz	ounce	<	less than
hkg	hectokilogramme	p.	page	±	with or without
hp	horsepower	post-em.	post-emergence	%	percent(age)

Languages

An initial capital denotes the language of the paper, an initial small letter the language of the summary.

Af	Afrikaans	Fi	Finnish	It	Italian	Ru	Russian
Bg	Bulgarian	Nl	Flemish	Ja	Japanese	Sh	Serbo-Croat
Cs	Czech	Fr	French	No	Norwegian	Sk	Slovak
Da	Danish	De	German	Pl	Polish	Es	Spanish
Nl	Dutch	He	Hebrew	Pt	Portuguese	Sv	Swedish
En	English	Hu	Hungarian	Ro	Romanian	Tr	Turkish

Abstract Numeration A sequence of abstracts sharing a common bibliographical description, e.g. each of a series of items drawn from the annual report of a research station, is indicated by placing the serial numbers of all items other than the first (that containing the bibliographical details common to all) within square brackets.

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Attribution Where abstracts have been taken in their entirety from another source, acknowledgement is made to the source used. An author's original abstract is followed by the words 'From summary'. Where a modified version of an abstract is used, additionally the abstractor's initials are appended.

Use of 'a.i.', 'a.e.' etc. Unless otherwise stated, rates of application for growth-regulator herbicides such as 2,4-D, MCPA, fenoprop, dalapon, the benzoics, etc. are given as the acid equivalent. Rates for other herbicides such as the ureas, carbamates, triazines, etc. are given as the active ingredient. Rates for the bipyridyls refer to the cation, only.

List of common names and abbreviations employed for currently used herbicides and plant growth regulators in *Weed Abstracts*

An asterisk (*) signifies approval by the British Standards Institution (BSI)
A dagger (†) signifies approval by the Weed Science Society of America (WSSA) or ANSI
A double dagger (‡) signifies approval by the International Organization for Standardization (I.S.O.)
Where the name approved by the WSSA or the I.S.O. differs from that approved by the BSI, the WSSA or I.S.O. name is given in brackets opposite the chemical name, with the appropriate symbol attached.

acifluorfen*†	5-(2-chloro-4-trifluoromethylphenoxy)-2-nitrobenzoic acid	
acrolein	acrylaldehyde	
alachlor*†‡	*a*-chloro-2,6-diethyl-*N*-(methoxymethyl)acetanilide	
allidochlor*‡	*N,N*-diallylchloroacetamide	(CDAA†)
ametryne*	4-ethylamino-6-isopropylamino-2-methylthio-1,3,5-triazine	(ametryn†)
aminotriazole	3-amino-1,2,4-triazole	(amitrole†‡)
amiprofos-methyl*	*O*-methyl *O*-(4-methyl-2-nitrophenyl) *N*-isopropylphosphoramidothionate	
AMS†	ammonium sulphamate	
ancymidol*‡	*a*-cyclopropyl-4-methoxy-*a*-pyrimidin-5-ylbenzylalcohol	
asulam*†‡	methyl (4-aminobenzenesulphonyl)carbamate	
atraton *†‡	4-ethylamino-6-isopropylamino-2-methoxy-1,3,5-triazine	
atrazine*†‡	2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine	
aziprotryne*‡	2-azido-4-isopropylamino-6-methylthio-1,3,5-triazine	
barban*†‡	4-chlorobut-2-ynyl *N*-(3-chlorophenyl)carbamate	
benazolin *‡	4-chloro-2-oxobenzothiazolin-3-ylacetic acid	
benfluralin *‡	*N*-butyl-*N*-ethyl-2,6-dinitro-4-trifluoromethylaniline	(benefin†)
bensulide*†‡	*N*-[2-(*O,O*-di-isopropyldithiophosphoryl)ethyl] benzene sulphonamide	
bentazone*‡	3-isopropyl-2,1,3-benzothiadiazin-4-one 2,2-dioxide	(bentazon†)
benzadox*†	benzamido-oxyacetic acid	
benzoylprop-ethyl*	ethyl *N*-benzoyl-*N*-(3,4-dichlorophenyl)-2-aminopropionate	(benzoylprop† [acid])
benzthiazuron*‡	*N*-(benzothiazol-2-yl)-*N*-methylurea	
bifenox†	methyl 5-(2,4-dichlorophenoxy)-2-nitrobenzoate	
bromacil*†‡	5-bromo-6-methyl-3-(1-methyl-n-propyl) uracil	
bromofenoxim*‡	3,5-dibromo-4-hydroxybenzaldehyde 2,4-dinitrophenyloxime	
bromoxynil*†‡	3,5-dibromo-4-hydroxybenzonitrile	
butachlor*†	*N*-(butoxymethyl)-*a*-chloro-2,6-diethylacetanilide	
butam†	*N*-benzyl-*N*-isopropyl-2,2-dimethylpropionamide	
butamifos*	*O*-ethyl *O*-(5-methyl-2-nitrophenyl) *N*-s-butylphosphoramidothionate	
buthidazole*†	4-hydroxy-1-methyl-3-(2-t-butyl-1,3,4-thiadiazol-5-yl)imidazolidin-2-one	
buthiuron*	*N'*-(5-butylsulphonyl-1,3,4-thiadiazol-2-yl)-*N,N'*-dimethylurea	
butralin*†	*N*-s-butyl-4-t-butyl-2,6-dinitroaniline	
buturon*†‡	*N'*-(4-chlorophenyl)-*N*-(1-methylprop-2-ynyl)-*N*-methylurea	
butylate*†‡	*S*-ethyl *N,N*-di-isobutyl(thiocarbamate)	
cambendichlor*†	*N*-phenylimino diethylene bis(3,6-dichloro-2-methoxybenzoic acid)	
carbetamide*†‡	D-*N*-ethyl-2-(phenylcarbamoyloxy) propionamide	
chloramben*†‡	3-amino-2,5-dichlorobenzoic acid	
chloranocryl*‡	*N*-(3,4-dichlorophenyl) methacrylamide	(dicryl†)
chlorbromuron*†‡	*N'*-(4-bromo-3-chlorophenyl)-*N*-methoxy-*N*-methylurea	
chlorbufam*‡	1-methylprop-2-ynyl *N*-(3-chlorophenyl)carbamate	
chloreturon*	*N'*-(3-chloro-4-ethoxyphenyl)-*N,N*-dimethylurea	
chlorfenac*‡	2,3,6-trichlorophenylacetic acid	(fenac†)
chlorfenprop-methyl*‡	methyl 2-chloro-3-(4-chlorophenyl)propionate	
chlorflurecol*	2-chloro-9-hydroxyfluorene-9-carboxylic acid	(chlorflurenol‡)
chlorflurenol*‡	2-chlorofluorene-9-carboxylic acid	
chloridazon*	5-amino-4-chloro-2-phenylpyridazin-3(2*H*)-one	(pyrazon†)
chlormequat*‡	2-chloroethyl-trimethyl-ammonium chloride	(CCC†)
chlornitrofen*‡	4-nitrophenyl 2,4,6-trichlorophenyl ether	
chloroxuron*†‡	*N*-4-(4-chlorophenoxy)phenyl-*N,N*-dimethylurea	
chlorphonium*‡	tributyl-2,4-dichlorobenzylphosphonium	
chlorpropham*†‡	isopropyl *N*-(3-chlorophenyl)carbamate	
chlorthal-dimethyl*‡	2,3,5,6-tetrachloroterephthalic acid dimethyl ester	(DCPA†)
chlorthiamid*‡	2,6-dichlorothiobenzamide	
chlortoluron*‡	*N'*-(3-chloro-4-methylphenyl)-*N,N*-dimethylurea	
cisanilide†	2,5-dimethyl-1-pyrrolidine-carboxanilide	
clofop-isobutyl*	isobutyl 2-[4-(4-chlorophenoxy)phenoxy] propionate	
cloprop*	2-(3-chlorophenoxy)propionic acid	
4-CPA*†‡	4-chlorophenoxyacetic acid	
cyanatryn*	4-(1-cyano-1-methylethylamino)-6-ethylamino-2-methylthio-1,3,5-triazine	
cyanazine*†‡	2-chloro-4-(1-cyano-1-methylethylamino)-6-ethylamino-1,3,5-triazine	
cycloate*†	*N'*-cyclohexyl-*N*-ethyl-*S*-ethyl(thiocarbamate)	
cycluron*†‡	*N'*-cyclo-octyl-*N,N*-dimethylurea	
cyometrinil*	*a*-(cyanomethoxyimino)benzacetonitrile	
cyperquat*†	1-methyl-4-phenylpyridinium	
cyprazine*†	2-chloro-4-cyclopropylamino-6-isopropylamino-1,3,5-triazine	
cyprazole*†	*N*-[5-(2-chloro-1,1-dimethylethyl)-1,3,4-thiadiazol-2-yl] cyclopropanecarboxamide	
cypromid*†‡	3,4-dichlorocyclopropanecarboxanilide	
2,4-D*†‡	2,4-dichlorophenoxyacetic acid	
dalapon*†	2,2-dichloropropionic acid	
daminozide*‡	*N*-dimethylaminosuccinamic acid	
dazomet*†‡	3,4,5,6-tetrahydro-3,5-dimethyl-1,3,5-thiadiazine-2-thione	
2,4-DB*†	4-(2,4-dichlorophenoxy)butyric acid	
DCU†	dichloral urea	
delachlor*†‡	*a*-chloro-*N*-(isobutoxymethyl)-2,6-acetoxylidide	
2,4-DES	2-(2,4-dichlorophenoxy)ethyl hydrogen sulphate	(sesone†, disul‡)
desmedipham*†‡	3-(ethoxycarbonylamino)phenyl *N*-phenyl-carbamate	
desmetryne*	4-isopropylamino-6-methylamino-2-methylthio-1,3,5-triazine	(desmetryn†‡)
di-allate*‡	*S*-2,3-dichloroallyl *N,N*-di-isopropyl(thiocarbamate)	(diallate†)
dicamba*†‡	3,6-dichloro-2-methoxybenzoic acid	
dichlobenil*†‡	2,6-dichlorobenzonitrile	
dichlone*†‡	2,3-dichloro-1,4-naphthaquinone	
dichlorflurenol*‡	2,7-dichloro-9-hydroxyfluorene-9-carboxylic acid	
dichlormate*†‡	3,4-dichlorobenzyl *N*-methylcarbamate	

dichlorprop*†‡	(±) 2-(2,4-dichlorophenoxy)propionic acid	(diclofop† [acid])
diclofop-methyl*	methyl 2-[4-(2,4-dichlorophenoxy)phenoxy] propionate	
diethamquat*	1,1′-di(diethylcarbamoylmethyl)-4,4′-bipyridyl-1,1′-diylium	
diethatyl*†	*N*-chloroacetyl-*N*-(2,6-diethylphenyl)aminoacetic acid	
difenoxuron*†‡	*N′*-4-(4-methoxyphenoxy)phenyl-*N,N*-dimethylurea	
difenzoquat*†	1,2-dimethyl-3,5-diphenyl-pyrazolium	
dikegulac*	2,3:4,6-di-*O*-isopropylidene-α-L-xylo-2-hexulofuranosonic acid	
dimefuron*	4-[2-chloro-4-(3,3-dimethylureido)phenyl]-2-t-butyl-1,3,4-oxadiazolin-5-one	
dimethachlor*	α-chloro-*N*-(2-methoxyethyl)-2′,6′-acetoxylidide	
dimethametryn*	2-(1,2-dimethylpropylamino)-4-ethylamino-6-methylthio-1,3,5-triazine	
dimidazon*‡	4,5-dimethoxy-2-phenylpyridazin-3(2*H*)-one	(dimexano‡)
dimexan*	di(methoxythiocarbonyl)disulphide	
dinitramine*†‡	N^1,N^1-diethyl-2,6-dinitro-4-trifluoromethyl-*m*-phenylenediamine	
dinoseb*†‡	2-(1-methylpropyl)-4,6-dinitrophenol	
dinoterb*‡	4,6-dinitro-2-t-butylphenol	
diphenamid*†‡	*N,N*-dimethyl-αα-diphenylacetamide	
dipropetryn*†‡	2-ethylthio-4,6-di(isopropylamino)-1,3,5-triazine	
diquat*†‡	9,10-dihydro-8a,10a-diazoniaphenanthrene	
diuron*†‡	*N′*-(3,4-dichlorophenyl)-*N,N*-dimethylurea	
DNOC*†‡	2-methyl-4,6-dinitrophenol	
DSMA†	disodium methylarsonate	
eglinazine*	*N*-(4-chloro-6-ethylamino-1,3,5-triazin-2-yl)aminoacetate	
endothal*	7-oxabicyclo[2,2,1]heptane-2,3-dicarboxylic acid	(endothall†, endothal-sodium[=Na salt‡])
epronaz*	1-(*N*-ethyl-*N*-propylcarbamoyl)-3-propylsulphonyl-1,2,4-triazole	
EPTC*†‡	*S*-ethyl *N,N*-dipropyl(thiocarbamate)	
erbon†‡	2-(2,4,5-trichlorophenoxy)ethyl 2,2-dichloropropionate	
etacelasil*	2-chloroethyltri-(2-methoxyethoxy)silane	
ethalfluralin*†	*N*-ethyl-*N*-(2-methylallyl)-2,6-dinitro-4-trifluoromethylaniline	
ethephon†	2-chloroethylphosphonic acid	
ethidimuron*	*N′*-(5-ethylsulphonyl-1,3,4-thiadiazol-2-yl)-*N,N′*-dimethylurea	
ethiolate*†‡	*S*-ethyl diethylthiocarbamate	
ethofumesate*†	2-ethoxy-2,3-dihydro-3,3-dimethylbenzofuran-5-yl methylsulphonate	
fenoprop*‡	(±) 2-(2,4,5-trichlorophenoxy)propionic acid	(silvex†)
fenteracol*	2-(2,4,5-trichlorophenoxy)ethanol	
fenuron*†‡	*N,N*-dimethyl-*N′*-phenylurea	
flamprop-isopropyl*	isopropyl (±)-2-(*N*-benzoyl-3-chloro-4-fluoroanilino)propionate	(flamprop† [acid])
flamprop-methyl*	methyl (±)-2-(*N*-benzoyl-3-chloro-4-fluoroanilino)propionate	(flamprop† [acid])
fluchloralin*†‡	*N*-(2-chloroethyl)-2,6-dinitro-*N*-propyl-4-(trifluoromethyl)aniline	
fluometuron*†‡	*N′*-(3-trifluoromethylphenyl)-*N,N*-dimethylurea	
fluoridamid*	3-trifluoromethylsulphonamido-*p*-acetotoluidide	
fluorodifen*†‡	4-nitrophenyl 2-nitro-4-trifluoromethylphenyl ether	
fluoronitrofen*‡	2,4-dichloro-6-fluorophenyl 4-nitrophenyl ether	
fluothiuron*	*N*-(3-chloro-4-chlorodifluoromethylthiophenyl)-*N′,N′*-dimethylurea	
flurecol*†	9-hydroxyfluorene-9-carboxylic acid	(flurenol†‡)
fluridone*†	1-methyl-3-phenyl-5-(3-trifluoromethylphenyl)pyridin-4-one	
fluromidine*‡	6-chloro-2-trifluoromethyl-3*H*-imidazo[4,5-*b*]pyridine	
fosamine*†	ethyl hydrogen carbamoylphosphonate	
GA	gibberellic acid	
glyphosate*†	*N*-(phosphonomethyl)glycine	
glyphosine*	*N,N*-bis(phosphonomethyl)glycine	
haloxydine*‡	3,5-dichloro-2,6-difluoro-4-hydroxypyridine	
hexaflurate†	potassium hexafluoroarsenate	
hexazinone*†	3-cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4-dione	
holosulf*	(2-chloroethyl)sulphinic acid	
IAA	indolylacetic acid	
IBA	indolylbutyric acid	
ioxynil*†‡	4-hydroxy-3,5-di-iodobenzonitrile	
isocarbamid*	*N*-isobutylimidazolidin-2-one-1-carboxamide	
isomethiozin*	4-(isobutylideneamino)-3-methylthio-6-t-butyl-1,2,4-triazin-5-one	
isopropalin*†‡	4-isopropyl-2,6-dinitro-*N,N*-dipropylaniline	
isoproturon*	*N′*-(4-isopropylphenyl)-*N,N*-dimethylurea	
isopyrimol*	4-chloro-α-isopropyl-α-(pyrimidin-5-yl)benzyl alcohol	
karbutilate*†‡	*m*-(3,3-dimethylureido)phenyl t-butylcarbamate	
lenacil*†‡	3-cyclohexyl-6,7-dihydro-1*H*-cyclopentapyrimidine-2,4-(3*H*,5*H*)dione	
linuron*†‡	*N*-(3,4-dichlorophenyl)-*N*-methoxy-*N*-methylurea	
MAMA†	monoammonium methylarsonate	
MCPA*†‡	4-chloro-2-methylphenoxyacetic acid	
MCPA-thioethyl*‡	*S*-ethyl 4-chloro-2-methylphenoxythioacetate	
MCPB*†‡	4-(4-chloro-2-methylphenoxy)butyric acid	
mecoprop*†‡	(±) 2-(4-chloro-2-methylphenoxy)propionic acid	
medinoterb*‡	4,6-dinitro-5-methyl-2-t-butylphenol	
mefluidide*†	5-trifluoromethylsulphonylamino-2,4-acetoxylidide	
mepiquat*	1,1-dimethylpiperidinium ion	
metamitron*	4-amino-3-methyl-6-phenyl-1,2,4-triazin-5(4*H*)-one	
metflurazone*‡	4-chloro-5-(dimethylamino)-2-(3-trifluoromethylphenyl)pyridazin-3(2*H*)-one	
methabenzthiazuron*‡	*N*-(benzothiazol-2-yl)-*N,N′*-dimethylurea	
methalpropalin*†	*N*-methylallyl-2,6-dinitro-*N*-propyl-4-trifluoromethylaniline	
metham*†	*N*-methyldithiocarbamic acid	(metam-sodium [=Na salt]‡)
methazole†	2-(3,4-dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione	
methiobencarb*	*S*-(4-methoxybenzyl) *N,N*-diethylthiolcarbamate	
methometon*‡	2-methoxy-4,6-bis(3-methoxypropylamino)-1,3,5-triazine	
methoprotryne*‡	4-isopropylamino-6-(3-methoxypropylamino)-2-methylthio-1,3,5-triazine	
metobromuron*†‡	*N′*-(4-bromophenyl)-*N*-methoxy-*N*-methylurea	
metolachlor*†	α-chloro-6-ethyl-*N*-(2-methoxy-1-methylethyl)-*o*-acetotoluidide	
metoxuron*‡	*N′*-(3-chloro-4-methoxyphenyl)-*N,N*-dimethylurea	
metribuzin*†‡	4-amino-6-t-butyl-3-(methylthio)-1,2,4-triazin-5(4*H*)-one	
MH†	1,2,3,6-tetrahydro-3,6-dioxopyridazine	
molinate*†‡	*S*-ethyl *N,N*-hexamethylene(thiocarbamate)	
monalide*‡	*N*-(4-chlorophenyl)-2,2-dimethylvaleramide	
monolinuron*†‡	*N′*-(4-chlorophenyl)-*N*-methoxy-*N*-methylurea	
monuron*†‡	*N′*-(4-chlorophenyl)-*N,N*-dimethylurea	
morfamquat*‡	1,1′-bis(3,5-dimethylmorpholinocarbonylmethyl)-4,4′-bipyridylium	
MSMA†	monosodium methylarsonate	
NAA	1-naphthylacetic acid	
napropamide*†	*N,N*-diethyl-2-(α-naphthoxy)propionamide	

naptalam*†‡	*N*-1-naphthylphthalamic acid	
neburon*†‡	*N*-butyl-*N'*-(3,4-dichlorophenyl)-*N*-methylurea	
nitralin*†‡	4-(methylsulphonyl)-2,6-dinitro-*N,N*-dipropylaniline	
nitrofen*†‡	2,4-dichlorophenyl 4-nitrophenyl ether	
nitrofluorfen*†	2-chloro-4-trifluoromethylphenyl 4-nitrophenyl ether	
norflurazon*†‡	4-chloro-5-methylamino-2-(3-trifluoromethylphenyl)pyridazin-3-one	
noruron*‡	*N'*-(hexahydro-4,7-methanoindan-5-yl)-*N,N*-dimethylurea	(norea†)
oryzalin*†‡	3,5-dinitro-N^4N^4-dipropylsulphanilamide	
oxadiazon*†‡	3-(2,4-dichloro-5-isopropoxyphenyl)-5-t-butyl-1,3,4-oxadiazolin-2-one	
oxyfluorfen*†	2-chloro-4-trifluoromethylphenyl 3-ethoxy-4-nitrophenyl ether	
paraquat*†‡	1,1'-dimethyl-4,4'-bipyridylium	
PCP†	pentachlorophenol	
pebulate*†‡	*S*-propyl *N*-butyl-*N*-ethyl(thiocarbamate)	
pendimethalin*†	*N*-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine	
pentanochlor*‡	*N*-(3-chloro-4-methylphenyl)-2-methylpentanamide	(solan†)
perfluidone*†	4'-(phenylsulphonyl) trifluoromethylsulphono-*o*-toluidide	
phenisopham*	3-isopropoxycarbonylaminophenyl *N*-ethyl-*N*-phenyl carbamate	
phenmedipham*†‡	3-(methoxycarbonylamino)phenyl *N*-(3-methylphenyl)carbamate	
phenmedipham-ethyl*‡	3-ethoxycarbonylaminophenyl *N*-(3'-methylphenyl)carbamate	
phenobenzuron*‡	*N'*-benzoyl-*N'*-(3,4-dichlorophenyl)-*N,N*-dimethylurea	
picloram*†‡	4-amino-3,5,6-trichloropicolinic acid	
piperophos*	*S*-2-methyl-1-piperidylcarbonylmethyl *O,O*-di-n-propyl phosphorodithioate	
piproctanyl*	1-allyl-1-(3,7-dimethyloctyl)piperidinium ion	
pretilachlor*	α-chloro-2,6-diethyl-*N*-(2-propoxyethyl)acetanilide	
procyazine*†	2-chloro-4-(1-cyano-1-methylethylamino)-6-cyclopropylamino-1,3,5-triazine	
prodiamine*	2,6-dinitro-N^1,N^1-dipropyl-4-trifluoromethyl-*m*-phenylenediamine	
profluralin*†	*N*-(cyclopropylmethyl)-2,6-dinitro-*N*-propyl-4-trifluoromethylaniline	
proglinazine*	*N*-(4-chloro-6-isopropylamino-1,3,5-triazin-2-yl)aminoacetate	
prometon*‡	4,6-bisisopropylamino-2-methoxy-1,3,5-triazine	(prometone†)
prometryne*‡	4,6-bisisopropylamino-2-methylthio-1,3,5-triazine	(prometryn†‡)
propachlor*†‡	α-chloro-*N*-isopropylacetanilide	
propanil*†‡	*N*-(3,4-dichlorophenyl) propionamide	
propazine*†‡	2-chloro-4,6-bisisopropylamino-1,3,5-triazine	
propham*†‡	isopropyl *N*-phenylcarbamate	
propyzamide*	3,5-dichloro-*N*-(1,1-dimethylpropynyl)benzamide	(pronamide†)
prosulfalin*†	*N*-(4-dipropylamino-3,5-dinitrophenylsulphonyl)-*S,S*-dimethylsulphimide	
prynachlor*†‡	2-chloro-*N*-(1-methyl-2-propynyl)acetanilide	
pydanon*‡	(±)-hexahydro-4-hydroxy-3,6-dioxopyridazin-4-ylacetic acid	
pyrazone (see chloridazon)		
pyridate*	octyl *O*-(6-chloro-3-phenylpyridazin-4-yl)carbonothioate	
quinonamid*	3-chloro-2-dichloroacetamido-1,4-naphthaquinone	
sebuthylazine*‡	2-chloro-4-ethylamino-6-s-butylamino-1,3,5-triazine	
secbumeton*†‡	4-ethylamino-2-methoxy-6-s-butylamino-1,3,5-triazine	
siduron*†‡	*N*-(2-methylcyclohexyl)-*N*-phenylurea	
simazine*†‡	2-chloro-4,6-bisethylamino-1,3,5-triazine	
simetryne*	4,6-bisethylamino-2-methylthio-1,3,5-triazine	(simetryn†‡)
SMA	sodium monochloroacetate	
sulfallate*‡	2-chloroallyl *N,N*-diethyldithiocarbamate	(CDEC†)
sulglycapin*	*O*-(methylsulphamoyl)glycollic acid hexamethylene imide	
swep†	methyl *N*-(3,4-dichlorophenyl)carbamate	
2,4,5-T*†‡	2,4,5-trichlorophenoxyacetic acid	
2,4,5-TB*‡	4-(2,4,5-trichlorophenoxy)butyric acid	
2,3,6-TBA†‡	2,3,6-trichlorobenzoic acid	
TCA†‡	trichloroacetic acid	(sodium trichloroacetate [=Na salt]‡)
tebuthiuron*†‡	*N,N'*-dimethyl-*N*-(5-t-butyl-1,3,4-thiadiazol-2-yl)urea	
terbacil*†	5-chloro-6-methyl-3-t-butyluracil	
terbucarb*‡	2,6-di-t-butyl-*p*-tolyl *N*-methylcarbamate	(terbutol†)
terbuchlor*†	*N*-butoxymethyl-α-chloro-6-t-butyl-*o*-acetotoluidide	
terbumeton*‡	4-ethylamino-2-methoxy-6-t-butylamino-1,3,5-triazine	
terbuthylazine*†‡	2-chloro-4-ethylamino-6-t-butylamino-1,3,5-triazine	
terbutryne*	4-ethylamino-2-methylthio-6-t-butylamino-1,3,5-triazine	(terbutryn†‡)
tetrafluron*†	*N,N*-dimethyl-*N'*-[3-(1,1,2,2-tetrafluoroethoxy)phenyl]urea	
thiazafluron*	1,3-dimethyl-1-(5-trifluoromethyl 1,3,4-thiadazol-2-yl)urea	
thidiazuron*	*N*-phenyl-*N'*-(1,2,3-thiadiazol-5-yl)urea	
thiobencarb*†‡	*S*-(4-chlorobenzyl) *N,N*-diethylthiolcarbamate	
TIBA	2,3,5-triiodobenzoic acid	
tri-allate*‡	*S*-2,3,3-trichloroallyl *N,N*-di-isopropyl(thiocarbamate)	(triallate†)
triclopyr*†	3,5,6-trichloro-2-pyridyloxyacetic acid	
trietazine*†‡	2-chloro-4-diethylamino-6-ethylamino-1,3,5-triazine	
trifluralin*†‡	2,6-dinitro-*N,N*-dipropyl-4-trifluoromethylaniline	
trifop-methyl*	methyl 2-[4-(4-trifluoromethylphenoxy)phenoxy] propionate	
trimeturon*†	*N'*-(4-chlorophenyl)-*O,N,N*-trimethylisourea	
tripropindan*‡	6-isopropyl-1,1,4-trimethyl-5-propionylindane	
vernolate*†	*S*-propyl *N,N*-dipropyl(thiocarbamate)	

ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 28

Page	*Abstract*	*Line*	
228	2124	7&8	For '*chinesis*' read '*chinensis*'
281	2599	6	For '110' read '111'
414	3862	31-32	For 'UB1-5734' read 'UB1-S734'

Volume 29

15	85	13	Insert 'applied' after the word 'remainder'
25	195	4	For 'P.2.' read 'Pp. 2-4.'
25	195	18	For 'P. 4.' read 'Pp. 4-5.'
40	326	10	For 'caused by' read 'found with'
40	331	12	For 'in' read 'is'
41	333	2	For '**quantitive**' read '**quantitative**'
41	338	3	For '*Obschchei*' read '*Obshchei*'
45	372	5	For 'Candada' read 'Canada'
45	372	14	For 'at 3% OV-210' read 'of 3% OV-210'
137	1207	11	For 'less than 1 p.p.m.' read 'less than 0.1 p.p.m.'
146	1287	7-8	The compounds NP 55 and BAS 9052 OH, of which the content is
165	1464	8-9	quoted as '2-(*N*-ethoxybutyrimidoyl)-5-(2-ethylthiopropyl)-3-
	2066	8-9	hydroxy-2-cyclohexen-1-one' are now stated by the manufacturer to be '2-[1-(ethoxyamino)butylidene]-5-(2-ethylthiopropyl) cyclohexane-1,3-dione'
215	1919	11	For 'In dry-son controlled' read 'In dry-sown bunded rice, weeds were generally fewer where weeds had been controlled'
239	2166	3	For '***puparia***' read '**puparia**'
251	2255	2	Insert '**in three different soils**' after '**and bromacil**'
309	2767	6-7	For '[2-(*N*-ethoxybutyrimidoyl)-5-(2-ethylthiopropyl)-3-hydroxy-cyclohexen-1-one]' read '[2-[1-(ethoxyamino)butylidene]-5-(2-ethylthiopropyl)cyclohexane-1,3-dione]'
378	3404	8	For '*N. eichhorniae*' read '*Neochetina eichhorniae*'
448	4018	7	For '*Universität*' read '*Universität Hohenheim*'